AUTODOC CLUB

How to change rear brake pads on **BMW 1 Hatchback (E87)** – replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

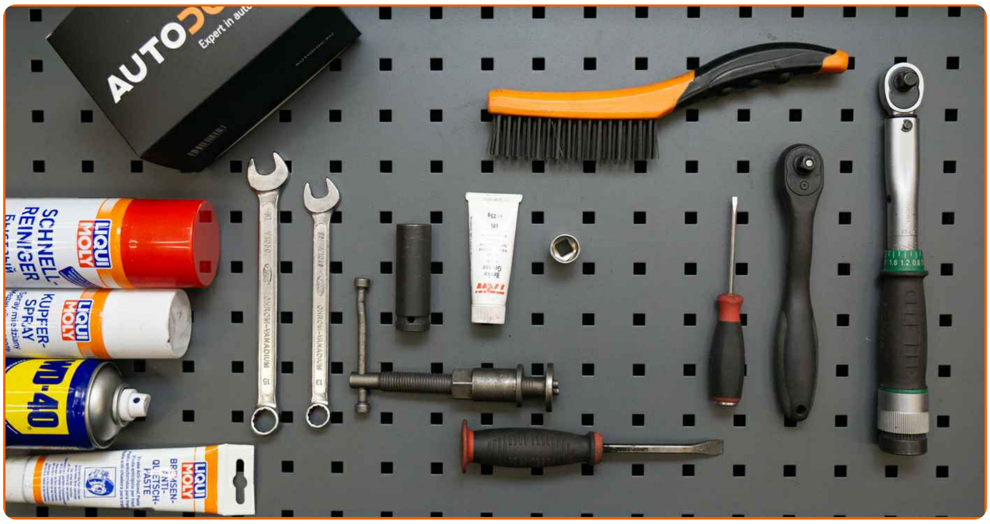
Important!

This replacement procedure can be used for:
BMW 1 Hatchback (E87) 130i 3.0, BMW 1 Hatchback (E87) 118d 2.0, BMW 1 Hatchback (E87) 120d 2.0, BMW 1 Hatchback (E87) 123d 2.0

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Saloon (E90) 318i 2.0

REPLACEMENT: BRAKE PADS – BMW 1 HATCHBACK (E87). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Anti-squeal paste
- Copper grease
- Combination spanner #13
- Combination spanner #15
- Drive socket # 13
- Wheel impact socket #17
- Torque wrench
- Brake caliper wind back tool
- Flat Screwdriver
- Crow bar
- Wheel chock

Buy tools

Replacement: brake pads – BMW 1 Hatchback (E87). AUTODOC recommends:

- Perform the replacement of brake pads in complete set for each axis. This provides effective braking.
- The replacement procedure is identical for all brake pads on the same axle.
- Please note: all work on the car – BMW 1 Hatchback (E87) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1. Open the bonnet. Unscrew the brake fluid reservoir cap.

2. Secure the wheels with chocks.



3. Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the rear of the car and secure on supports.

5 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. BMW 1 Hatchback (E87)

6 Remove the wheel.



7 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.

8 Unscrew the brake caliper fastening. Use a combination spanner #13. Use a combination spanner #15.



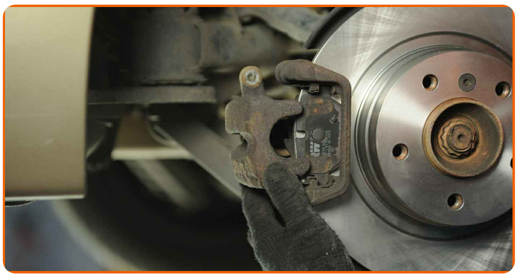
9

Spread the brake pads. Use a crowbar.



10

Remove the brake caliper.



Replacement: brake pads – BMW 1 Hatchback (E87). AUTODOC experts recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

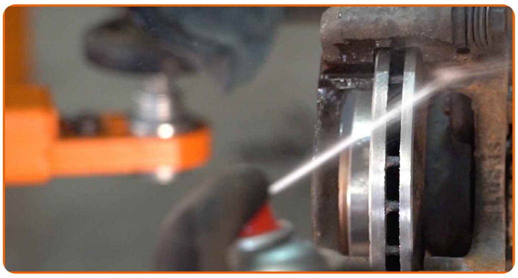
11 Remove the brake pads. Use a flat screwdriver.



12 Remove the brake pads retaining clips. Use a flat screwdriver.



13 Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake pads – BMW 1 Hatchback (E87). After applying the spray, wait a few minutes.

14 Install the brake pads retaining clips.



15 Treat the brake pads in the area where their surface comes into contact with the brake caliper bracket. Use anti-squeal paste.



AUTODOC recommends:

- Make sure the disc surface is clean before installing the pads.

16 Install new brake pads.



Replacement: brake pads – BMW 1 Hatchback (E87). Tip:

- Make sure the pads are installed with linings facing the disc.

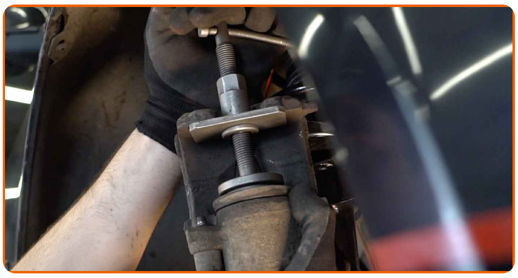
17 Treat the brake caliper piston. Use a brake cleaner.



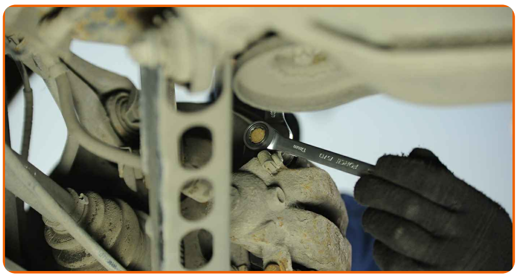
AUTODOC recommends:

- Replacement: brake pads – BMW 1 Hatchback (E87). After applying the spray, wait a few minutes.

18 Press in the brake caliper piston. Use brake caliper wind back tool.



19 Install the brake caliper and fix it. Use a combination spanner #15. Use a drive socket #13. Use a torque wrench. Tighten it to 35 Nm torque.



20 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



21 Clean the brake disk surface. Use a brake cleaner.



Replacement: brake pads – BMW 1 Hatchback (E87). Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

22 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW 1 Hatchback (E87)

23 Screw in the wheel bolts. Use wheel impact socket #17.



24 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.



Replacement: brake pads – BMW 1 Hatchback (E87). Tip:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

25 Remove the jacks and chocks.



AUTODOC recommends:

- Check the brake fluid level in the expansion tank and refill if necessary.

26 Tighten the brake fluid reservoir cap. Close the hood.

Replacement: brake pads – BMW 1 Hatchback (E87). AUTODOC recommends:

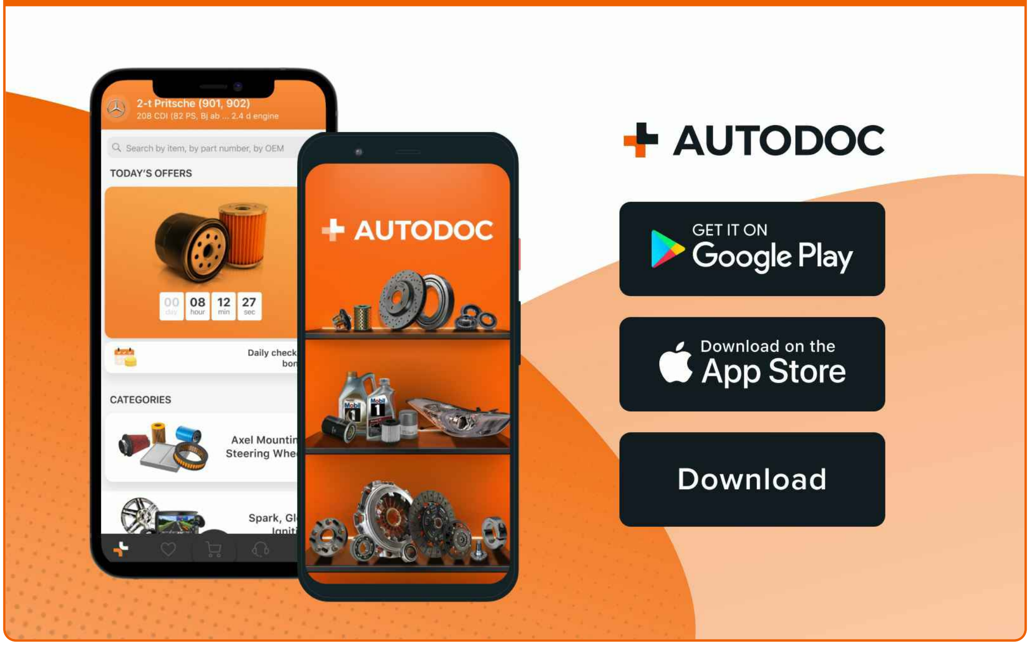
- Slow down smoothly for first 150-200 km after the brake pads replacement. Avoid unneccessary and sharp braking to a stop.

WELL DONE!

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